

SEQUENCE LISTING

<110> CENTRE HOSPITALIER DE L'UNIVERSITE DE MONTREAL (CHUM)
 GAUDREAU, PIERRETTE
 <120> GHRH ANALOGUES
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 <140> US 10/527,598
 <141> 2003-09-17
 <150> US 60/411,340
 <151> 2002-09-18
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 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa Xaa

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<400> 23

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 1 5 10 15
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 20 25 30
 Xaa Xaa Xaa
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 Xaa Xaa Xaa Xaa
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20 25 30

Xaa Xaa Xaa Xaa Xaa
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20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40

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20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<400> 31

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 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<400> 33

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 1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg
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Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa
 20 25 30

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<400> 35

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Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa
 20 25 30

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<400> 36

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 20 25 30

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Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa

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20 25 30

Xaa Xaa

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Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa

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20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa
35

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Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40

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 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40

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20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

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<220>

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<222> (2)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (8)

<223> Xaa is Asn, D-Asn or Ala

<220>

<221> misc_feature

<222> (9)

<223> Xaa is Ser or Ala

<220>

<221> misc_feature

<222> (10)

<223> Xaa is D-Tyr

<220>

<221> misc_feature

<222> (15)

<223> Xaa is Gly, Ala or D-Ala

<220>

<221> misc_feature

<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30 to 43)

<223> Xaa is any amino acid residue

<400> 47

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

<210> 48
 <211> 44
 <212> PRT
 <213> Artificial sequence

<220>
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<220>
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 <222> (2)
 <223> Xaa is D-Ala

<220>
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 <222> (8)
 <223> Xaa is Asn, D-Asn or Ala

<220>
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 <222> (9)
 <223> Xaa is Ser or Ala

<220>
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 <222> (10)
 <223> Xaa is D-Tyr

<220>
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 <222> (15)
 <223> Xaa is Gly, Ala or D-Ala

<220>
 <221> misc_feature
 <222> (21)
 <223> Xaa is Lys or D-Lys

<220>
 <221> misc_feature
 <222> (30 to 44)
 <223> Xaa is any amino acid residue

<400> 48

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40

<210> 49
 <211> 29
 <212> PRT
 <213> Artificial sequence

<220>
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<220>
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<220>
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<222> (8)
<223> Xaa is Asn, D-Asn or Ala

<220>
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<222> (9)
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<222> (10)
<223> Xaa is D-Tyr

<220>
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<222> (15)
<223> Xaa is D-Ala

<220>
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<222> (21)
<223> Xaa is Lys or D-Lys

<400> 49

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg
20 25

<210> 50
<211> 30
<212> PRT
<213> Artificial sequence

<220>
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<220>
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<223> Xaa is Ser or Ala

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<223> Xaa is D-Tyr

<220>

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<222> (15)

<223> Xaa is D-Ala

<220>

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<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30)

<223> Xaa is any amino acid residue

<400> 50

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa
20 25 30

<210> 51

<211> 31

<212> PRT

<213> Artificial sequence

<220>

<223> chemically synthesized

<220>

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<222> (2)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (8)

<223> Xaa is Asn, D-Asn or Ala

<220>

<221> misc_feature

<222> (9)

<223> Xaa is Ser or Ala

<220>

<221> misc_feature

<222> (10)

<223> Xaa is D-Tyr

<220>

<221> misc_feature

<222> (15)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature
 <222> (30 and 31)
 <223> Xaa is any amino acid residue

<400> 51

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa
 20 25 30

<210> 52
 <211> 32
 <212> PRT
 <213> Artificial sequence

<220>
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<220>
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 <223> Xaa is D-Ala

<220>
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 <222> (8)
 <223> Xaa is Asn, D-Asn or Ala

<220>
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 <222> (9)
 <223> Xaa is Ser or Ala

<220>
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 <222> (10)
 <223> Xaa is D-Tyr

<220>
 <221> misc_feature
 <222> (15)
 <223> Xaa is D-Ala

<220>
 <221> misc_feature
 <222> (21)
 <223> Xaa is Lys or D-Lys

<220>
 <221> misc_feature
 <222> (30 to 32)
 <223> Xaa is any amino acid residue

<400> 52

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

<210> 53

<211> 33
 <212> PRT
 <213> Artificial sequence

<220>
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<220>
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 <222> (2)
 <223> Xaa is D-Ala

<220>
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 <222> (8)
 <223> Xaa is Asn, D-Asn or Ala

<220>
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 <222> (9)
 <223> Xaa is Ser or Ala

<220>
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 <222> (10)
 <223> Xaa is D-Tyr

<220>
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 <222> (15)
 <223> Xaa is D-Ala

<220>
 <221> misc_feature
 <222> (21)
 <223> Xaa is Lys or D-Lys

<220>
 <221> misc_feature
 <222> (30 to 33)
 <223> Xaa is any amino acid residue

<400> 53

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa

<210> 54
 <211> 34
 <212> PRT
 <213> Artificial sequence

<220>
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<220>
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<220>
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 <222> (8)
 <223> Xaa is Asn, D-Asn or Ala

<220>
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 <222> (9)
 <223> Xaa is Ser or Ala

<220>
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 <222> (10)
 <223> Xaa is D-Tyr

<220>
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 <222> (15)
 <223> Xaa is D-Ala

<220>
 <221> misc_feature
 <222> (21)
 <223> Xaa is Lys or D-Lys

<220>
 <221> misc_feature
 <222> (30 to 34)
 <223> Xaa is any amino acid residue

<400> 54

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

Xaa Xaa

<210> 55
 <211> 35
 <212> PRT
 <213> Artificial sequence

<220>
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<220>
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 <222> (2)
 <223> Xaa is D-Ala

<220>
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 <222> (8)
 <223> Xaa is Asn, D-Asn or Ala

<220>
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 <222> (9)
 <223> Xaa is Ser or Ala

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 <222> (10)
 <223> Xaa is D-Tyr

<220>
 <221> misc_feature
 <222> (15)
 <223> Xaa is D-Ala

<220>
 <221> misc_feature
 <222> (21)
 <223> Xaa is Lys or D-Lys

<220>
 <221> misc_feature
 <222> (30 to 35)
 <223> Xaa is any amino acid residue

<400> 55

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa
 35

<210> 56
 <211> 36
 <212> PRT
 <213> Artificial sequence

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<220>
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 <222> (2)
 <223> Xaa is D-Ala

<220>
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 <222> (8)
 <223> Xaa is Asn, D-Asn or Ala

<220>
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 <222> (9)
 <223> Xaa is Ser or Ala

<220>
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 <222> (10)
 <223> Xaa is D-Tyr

<220>
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 <222> (15)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30 to 36)

<223> Xaa is any amino acid residue

<400> 56

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa
35

<210> 57

<211> 37

<212> PRT

<213> Artificial sequence

<220>

<223> chemically synthesized

<220>

<221> misc_feature

<222> (2)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (8)

<223> Xaa is Asn, D-Asn or Ala

<220>

<221> misc_feature

<222> (9)

<223> Xaa is Ser or Ala

<220>

<221> misc_feature

<222> (10)

<223> Xaa is D-Tyr

<220>

<221> misc_feature

<222> (15)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30 to 37)
<223> Xaa is any amino acid residue

<400> 57

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa
35

<210> 58
<211> 38
<212> PRT
<213> Artificial sequence

<220>
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<220>
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<222> (2)
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<220>
<221> misc_feature
<222> (8)
<223> Xaa is Asn, D-Asn or Ala

<220>
<221> misc_feature
<222> (9)
<223> Xaa is Ser or Ala

<220>
<221> misc_feature
<222> (10)
<223> Xaa is D-Tyr

<220>
<221> misc_feature
<222> (15)
<223> Xaa is D-Ala

<220>
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<222> (21)
<223> Xaa is Lys or D-Lys

<220>
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<222> (30 to 38)
<223> Xaa is any amino acid residue

<400> 58

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15
Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa
35

<210> 59
<211> 39
<212> PRT
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<220>
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<220>
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<220>
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<222> (8)
<223> Xaa is Asn, D-Asn or Ala

<220>
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<222> (9)
<223> Xaa is Ser or Ala

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<222> (10)
<223> Xaa is D-Tyr

<220>
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<222> (15)
<223> Xaa is D-Ala

<220>
<221> misc_feature
<222> (21)
<223> Xaa is Lys or D-Lys

<220>
<221> misc_feature
<222> (30 to 39)
<223> Xaa is any amino acid residue

<400> 59

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35

<210> 60
<211> 40
<212> PRT
<213> Artificial sequence

<220>

<223> chemically synthesized

<220>

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<222> (2)

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<220>

<221> misc_feature

<222> (8)

<223> Xaa is Asn, D-Asn or Ala

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<222> (9)

<223> Xaa is Ser or Ala

<220>

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<222> (10)

<223> Xaa is D-Tyr

<220>

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<222> (15)

<223> Xaa is D-Ala

<220>

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<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30 to 40)

<223> Xaa is any amino acid residue

<400> 60

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 61

<211> 41

<212> PRT

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<222> (2)

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<222> (8)

<223> Xaa is Asn, D-Asn or Ala

<220>

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<223> Xaa is Ser or Ala

<220>

<221> misc_feature

<222> (10)

<223> Xaa is D-Tyr

<220>

<221> misc_feature

<222> (15)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30 to 41)

<223> Xaa is any amino acid residue

<400> 61

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 . 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 62

<211> 42

<212> PRT

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<220>

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<220>

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<222> (2)

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<222> (8)

<223> Xaa is Asn, D-Asn or Ala

<220>

<221> misc_feature

<222> (9)

<223> Xaa is Ser or Ala

<220>

<221> misc_feature

<222> (10)

<223> Xaa is D-Tyr

<220>

<221> misc_feature

<222> (15)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30 to 42)

<223> Xaa is any amino acid residue

<400> 62

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 63

<211> 43

<212> PRT

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<220>

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<222> (2)

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<223> Xaa is Asn, D-Asn or Ala

<220>

<221> misc_feature

<222> (9)

<223> Xaa is Ser or Ala

<220>

<221> misc_feature

<222> (10)

<223> Xaa is D-Tyr

<220>

<221> misc_feature

<222> (15)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (21)

<223> Xaa is Lys or D-Lys

<220>

<221> misc_feature

<222> (30 to 43)

<223> Xaa is any amino acid residue

<400> 63

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 64

<211> 44

<212> PRT

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<220>

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<222> (2)

<223> Xaa is D-Ala

<220>

<221> misc_feature

<222> (8)

<223> Xaa is Asn, D-Asn or Ala

<220>

<221> misc_feature

<222> (9)

<223> Xaa is Ser or Ala

<220>

<221> misc_feature

<222> (10)

<223> Xaa is D-Tyr

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<222> (15)

<223> Xaa is D-Ala

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<222> (21)

<223> Xaa is Lys or D-Lys

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<222> (30 to 44)

<223> Xaa is any amino acid residue

<400> 64

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln

1 5 10 15
 Leu Ser Ala Arg Xaa Lys Leu Gln Asp Ile Met Ser Arg Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40

<210> 65
 <211> 30
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 <220>
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 <220>
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 <222> (9)
 <223> Xaa is Ser or Ala

 <220>
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 <222> (10)
 <223> Xaa is Tyr or D-Tyr

 <220>
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 <222> (15)
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 <220>
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 <223> Xaa is Lys or D-Lys

 <220>
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 <222> (22)
 <223> Xaa is Leu, D-Leu, Lys or Ala

 <220>
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 <222> (30)
 <223> Xaa is a bond or any amino acid sequence of 1 up to 15 residues

 <400> 65

Tyr Xaa Asp Ala Ile Phe Thr Xaa Xaa Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15
 Leu Ser Ala Arg Xaa Xaa Leu Gln Asp Ile Met Ser Arg Xaa
 20 25 30

<210> 66
 <211> 30
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 <220>
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 <223> Xaa is D-Ala

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 <222> (10)
 <223> Xaa is D-Tyr

 <220>
 <221> misc_feature
 <222> (15)
 <223> Xaa is D-Ala

 <220>
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 <222> (30)
 <223> Xaa is a bond or any amino acid sequence of 1 up to 15 residues

<400> 66
 Tyr Xaa Asp Ala Ile Phe Thr Asn Ser Xaa Arg Lys Val Leu Xaa Gln
 1 5 10 15
 Leu Ser Ala Arg Lys Lys Leu Gln Asp Ile Met Ser Arg Xaa
 20 25 30

<210> 67
 <211> 30
 <212> PRT
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 <220>
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 <220>
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 <222> (2)
 <223> Xaa is Ala or D-Ala

 <220>
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 <222> (8)
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 <220>
 <221> misc_feature
 <222> (10)
 <223> Xaa is Tyr or D-Tyr

 <220>
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<223> Xaa is Gly, Ala or D-Ala

<220>

<221> misc_feature

<222> (22)

<223> Xaa is Leu, D-Leu, Lys or Ala

<220>

<221> misc_feature

<222> (30)

<223> Xaa is a bond or any amino acid sequence of 1 up to 15 residues

<400> 67

Tyr Xaa Asp Ala Ile Phe Thr Xaa Ser Xaa Arg Lys Val Leu Xaa Gln
1 5 10 15

Leu Ser Ala Arg Lys Xaa Leu Gln Asp Ile Met Ser Arg Xaa
20 25 30